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***IN THE UNITED STATES PATENT AND TRADEMARK OFFICE***

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In re application of: Coster et al.

Attorney Docket No.: APL1P290/P3186

Application No.: 10/791,997

Examiner: Pape, Zachary

Filed: March 2, 2004

Group: 2835

Title: QUICK RELEASE STRUCTURES FOR A  
COMPUTER

Confirmation No.: 4300

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Signed: /Linda L. Quintana/  
Linda L. Quintana

**AMENDMENT AFTER ALLOWANCE, BEFORE PAYMENT OF ISSUE FEE  
PURSUANT to 37 C.F.R. §1.312 (a)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Please replace paragraph [0033] of the specification with the following amended paragraph [0033]:

**[0033]** Figs. 13**A and 13B** **is show** a diagram of a disk drive mounting system, in accordance with one embodiment of the present invention.

Please replace paragraph [0038] of the specification with the following amended paragraph [0038]:

**[0038]** Figs. 18**A and 18B** **is show** a side elevation view of a disk drive system, in accordance with one embodiment of the present invention.

Please replace paragraph [0099] of the specification with the following amended paragraph [0099]:

[0099] Figs. 11A and 11B are perspective diagrams of connection ~~arrangement~~ **arrangement** of the fan carrier 186 and the computer 10. As shown, the carrier 186 includes a bracket 232 for receiving the carrier connector 204 and the shelf 20B includes a bracket 234 for receiving the corresponding connector 206. Both brackets 232 and 234 are configured to allow their associated connectors 204 and 206 to float within the bracket 232 and 234 while keeping it constrained thereto (e.g., gimbal). As shown, the carrier connector 204 generally includes a body 236 that is positioned within a channel 238 formed by the carrier bracket 232 and a plug 240 that extends out an opening 242 in the carrier bracket 232. The wires 244 of the connector 204 go through another opening 246 in the bracket 232 and dive down to meet the fans. The body 236 is typically dimensioned to provide clearance all the way around thereby giving it some play within the channel 238 of the bracket 232. The clearance allows the connector 204 to float in the bracket 232. The connector 204 may freely sit in the bracket 232 or it may contain a means to hold it within the channel 238. For example, it may include a strap that goes over the top of the connector 204, or it may be held by a friction coupling as for example caused by the wires 244 pressed into the opening 246. In some cases, it may be desirable to prevent movement, and therefore crush ribs may be provided in the clearance to make the body 236 fit tight within the channel 238.

Please replace paragraph [0102] of the specification with the following amended paragraph [0102]:

**[0102]** In summary, the fan assembly ~~disclosed~~ **disclosed** herein provides a structure for accomplishing a quick and efficient installation and removal of the fans to and from the computer. For example, it requires no tools and only one hand to manipulate removal and installation. As discussed in the background, conventional fans have been attached to the frame or chassis of the computer with screws, bolts or grommets. In order to remove the fans from the computer, it has been necessary to unfasten and remove each of the screws or grommets securing the fan to the frame or chassis. This is time consuming and cumbersome process. Furthermore, it requires tools and more than one hand. Thus, those users without tools or those users with physical limitations may not be able to remove the fan from the computer. The fan assembly of the present invention overcomes these disadvantages.

Please replace paragraph [0109] of the specification with the following amended paragraph [0109]:

**[0109]** Figs. 14 is **13A and 13B show** a diagram of a disk drive mounting system 290, in accordance with one embodiment of the present invention. The disk drive mounting system 290 enables a user to easily and quickly secure and release the disk drive 24 to and from the housing 12. When installed, the disk drive 24 is at least positioned adjacent an opening or disk door in the housing so as to facilitate the placement and removal of a disk from the disk drive 24. When released, the disk drive 24 is presented to a user so that the user can remove the disk drive 24 from the computer 10. The disk drive mounting system 290 generally includes a disk drive plate 292, which may for example correspond to the bottom surface of the drive enclosure that houses the components of the disk drive 24. The drive mounting system 290 also includes a mounting plate 294, which may for example correspond to a shelf 20A inside the computer 10. The mounting plate 294 is configured to support the disk drive plate 292 and thus the disk drive 24 inside a computer 10.

Please replace paragraph [0112] of the specification with the following amended paragraph [0112]:

**[0112]** **Referring back to Figs. 13A and 13B, The** ~~the~~ latches 304 are rotatable between a receiving position (shown) and a locking position. In the receiving position, the flange portion 300 of the standoff 296 is capable of engaging the slot 302 in the bracket 298. In the locking position, the flange portion 300 of the standoff 296 is captured within a space formed by the latch 304 and the bracket 298A. The flange portion 300 of the stand off 296 is essentially trapped between the latch 304 and the bracket 298A so that it cannot be removed (e.g., locked). The latches 304 may be operated independently (as shown) or they may operated together as a unit. For example, the latches 304 may be operatively coupled via a mechanical linkage that allows a user to operate a single lever in order to cause both latches 304 to rotate between the receiving and locking position.

Please replace paragraph [0114] of the specification with the following amended paragraph [0114]:

**[0114]** The brackets 298 form a pocket 314 for receiving the latch 304 therein. The pocket 314 is configured to hide a substantial portion of the latch 304, as for example, a cam portion 316 of the latch 304. A lever arm 318 of the latch 304 is typically left exposed so that a user may easily actuate the latch 304. The latch 304 is rotatably coupled to a bracket 298 about an axis between a receiving position (Fig. ~~15-B~~ **15B**), and a locking position (Fig. 15C). In the receiving position, the lower flange 308 of the standoff 296 can be inserted into a groove 320 located within the cam portion 316 of the latch 304. In the locking position, the lower flange 308 of the standoff 296 is captured within the groove 320. The stand off 296 is essentially trapped between the latch 304 and the bracket 298 so that it cannot be removed (e.g., locked).

Please replace paragraph [0123] of the specification with the following amended paragraph [0123]:

**[0123]** ~~Fig. 18 is a side elevation view~~ **Figs. 18A and 18B are side elevation views** of a disk drive system 350, in accordance with one embodiment of the present invention. The disk drive system 350 includes a disk drive 352, a housing 354 and a drive door assembly 356. The disk drive 352 may for example correspond to a CD/DVD drive, which includes a carrier tray 358 for carrying a disk to and from the disk drive 352. The carrier tray 358 is configured to translate between a closed position (Fig. 18A) and an open position (Fig. ~~18-B~~ **18B**). When closed, the carrier tray 358 is positioned within an enclosure 360 of the disk drive 352 so that a disk can be processed by the disk drive 352. When opened, the carrier tray 358 is positioned outside of the enclosure 360 of the disk drive 352 so that a user can insert or remove a disk from the carrier tray 358.

Applicants submit this amendment to correct some minor typographical errors and hereby respectfully request that this amendment be entered. If there are any questions with regard to this matter, please do not hesitate to contact us at the number below.

Respectfully submitted,  
BEYER WEAVER LLP

/Michael J. Ferrazano/  
Michael J. Ferrazano  
Registration No. 44,105

P.O. Box 70250  
Oakland, CA 94612-0250  
(408) 255-8001